INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L25/03 H04L27/26 H04L25/497 According to International Patent Classification (IPC) or to both national classification and IPC Minimum documentation searched (classification system followed by classification symbols) IPC 7 HO4L Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, COMPENDEX, INSPEC C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Category ° Citation of document, with indication, where appropriate, of the relevant passages CHEONG K-W ET AL: "PRECODER FOR DMT WITH X 1,2,6-12INSUFFICIENT CYCLIC PREFIX" ICC '98. 1998 IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS. CONFERENCE RECORD. NEW CENTURY COMMUNICATIONS. ATLANTA, GA, JUNE 7 - 11, 1998, IEEE INTERNATIONAL CONFERENCE ON COMMUNICATIONS, NEW YORK, NY: IEEE, US, vol. 1 CONF. 5, 7 June 1998 (1998-06-07), pages 339-343, XP000898727 ISBN: 0-7803-4789-7 page 339, right-hand column, line 1 -page 3-5 Α 341, right-hand column, line 7 figures 1,2 X Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the International "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed *&* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 28 November 2003 12/12/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Marselli, M Fax (+31-70) 340-3016



		PCT/IB 03/03415
C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
х	BENVENUTO N ET AL: "RECEIVER ARCHITECTURES FOR FMT BROADBAND WIRELESS SYSTEMS" VTC 2001 SPRING. IEEE VTS 53RD. VEHICULAR TECHNOLOGY CONFERENCE. RHODES, GREECE, MAY 6 - 9, 2001, IEEE VEHICULAR TECHNOLGY CONFERENCE, NEW YORK, NY, vol. 1 OF 4. CONF. 53, 6 May 2001 (2001-05-06), pages 643-647, XP001067039	9–11
Α	ISBN: 0-7803-6728-6 page 643, right-hand column, line 14 -page 646, left-hand column, line 24 figures 1-4	1-8,12
Ρ,Χ	BENVENUTO N ET AL: "EFFICIENT PRE-CODING SCHEMES FOR FMT BROADBAND WIRELESS SYSTEMS" PROCEEDINGS OF 13TH IEEE INTERNATIONAL SYMPOSIUM ON PERSONAL INDOOR AND MOBILE RADIO COMMUNICATIONS: PIMRC 2002, vol. 4, 15 - 18 September 2002, pages 1493-1497, XP010611514 Piscataway, NJ, USA page 1493, left-hand column, line 18 -page 1496, right-hand column, line 12 figures 1-4	1-12
P,X P,A	US 6 597 745 B1 (DOWLING ERIC M) 22 July 2003 (2003-07-22) abstract column 3, line 59 -column 5, line 61 column 18, line 49 -column 20, line 22 figures 1,5-7	1,2,6-12
		·

Form PCT/ISA/210 (continuation of second sheet) Res AVOIIONE COPY



Internationa

Internationa dication No				
PCT/IB	03/03415			

Patent family member(s) Publication Patent document Publication date cited in search report date 22-07-2003 NONE US 6597745 **B1**